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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/891,235		06/27/2001	Takahiro Hosomi	053969-0128	1598
22428	7590	12/13/2005	EXAMINER		INER
FOLEY AT	ND LAR	DNER LLP	NGUYEN, DUNG X		
3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007				2638	
				DATE MAILED: 12/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/891,235	HOSOMI, TAKAHIRO					
Office Action Summary	Examiner	Art Unit					
	Dung X. Nguyen	2638					
The MAILING DATE of this communication a							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply b eply within the statutory minimum of thirty (30) od will apply and will expire SIX (6) MONTHS f tute, cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on Fe	bruary 03, 2005.						
2a) This action is FINAL . 2b) ⊠ TI	his action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1 - 24</u> is/are pending in the applica	tion.						
4a) Of the above claim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1, 2, 9 - 13, and 20 - 22</u> is/are reje							
7) Claim(s) <u>3 - 8, 14 - 19, 23 and 24</u> is/are objective.							
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exami	ner.						
0) \boxtimes The drawing(s) filed on <u>27 June 2001</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.							
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '					
Replacement drawing sheet(s) including the corr		• , ,					
11) The oath or declaration is objected to by the	Examiner. Note the attached Off	ice Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. § 119	9(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority docume	• •						
3. Copies of the certified copies of the pr	-	eived in this National Stage					
application from the International Bure	` '''	sived					
* See the attached detailed Office action for a li	ist of the certified copies not rece	aveu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summ	ary (PTO-413)					
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai						
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	аі г асепі Арріісавоп (РТО-192)					

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Response to Arguments

1. Applicant's arguments filed on September 29, 2005 have been fully considered and are persuasive. However, upon further consideration, a new ground(s) of rejection is made in view of the new found reference(s).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), and further in view of Kang et al. (US patent # 6,615,382 B1).

Regarding claim 1, Liew discloses a spectrum communication system comprising means for controlling transmission power of a counterpart equipment upon a communication quality (column 1, lines 9-31).

Liew differs from the instant claimed invention that it does not show the step of controlling a transmission bandwidth of a counterpart equipment depending upon a communication quality.

However, Kang et al. discloses (figure 8) the step of controlling a transmission bandwidth of a counterpart equipment depending upon a communication quality (column 15, lines 28 - 40, base station 34 deterioration is the same as change in quality).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew and Kang et al. as providing the requirements of the instant claimed invention for using more efficient of both transmission power and transmission bandwidth.

Regarding claim 2, as followed by the limitations analyzed in claim 1, Kang et al. further discloses wherein the communication quality is expressed by a reception bit error ratio (column 7, lines 26 - 29).

Regarding claim 12, the limitations are analyzed in the same manner set forth as claim 1.

Regarding claim 13, as followed by the limitations analyzed in claim 12, the limitations

4. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), Kang et al. (US patent # 6,615,382 B1), and further in view of Sun et al. (US patent # 6,510,147 B1).

Regarding claim 9, as followed by the limitations analyzed in claim 1, Liew and Kang et al. differ from the instant claimed invention that they do not show that wherein the control means varies the transmission bandwidth by varying a chip rate.

However, Sun et al. discloses that wherein the control means varies the transmission bandwidth by varying a chip rate (column 1, line 52 to column 2, line 26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Kang et al., and Sun et al. as providing the requirements of the instant claimed invention varying a chip rate for adapting transmitting narrow-band signals to transmitting wideband signals (column 1, lines 13 - 17 of Sun et al.).

Regarding claim 20, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 9.

5. Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable Liew (US patent # 6,415,153 B1), Kang et al. (US patent # 6,615,382 B2), and further in view of Lee et al. (US patent application # 2003/0086478 A1).

Regarding claim 10, as followed by the limitations analyzed in claim 1, Liew and Kang et al. differ from the instant claimed invention that they do not show that wherein the control means varies the transmission bandwidth by varying a data rate.

However, Lee et al. discloses that wherein the control means varies the transmission bandwidth by varying a data rate (page 2, first column, paragraph # 15 and page 3, second column 1, line 52 to column 2, lines 10 - 17).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Kang et al., and Lee et al. as providing the requirements of the instant claimed invention for improving user connectivity as data can be transmitted over existing band-limited links (page 1, paragraph 2 of Lee et al.)

Regarding claim 21, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 10

6. Claims 11 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), Kang et al. (US patent # 6,615,382 B1), and further in view of Bishop et al. (US patent # 6,377,782 B1).

Regarding claim 11, as followed by the limitations analyzed in claim 1, Liew and Kang et al. differ from the instant claimed invention that they do not show that wherein the control means varies the transmission bandwidth by varying a bit number of an error correction code.

However, Bishop et al. discloses that wherein the control means varies the transmission bandwidth by varying a bit number of an error correction code (figure 7 and its description from column 15, line 13 to column 16, line 38 and column 17, lines 15-46).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Kang et al., and Bishop et al. as providing the requirements of the instant claimed invention for improving the transmission and reception of data via a linear broadband network (column 1, lines 26 – 28 of Bishop et al.)

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Regarding claim 22, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 11.

Allowable Subject Matter

7. Claims 3 - 8, 14 - 19, 23, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pope, Jr. et al. (US patent # 6,654,616 B1) discloses a wireless area network having flexible backhauls for creating network.

Ayyagari et al. (US patent # 6,947,407 B2) discloses a power control based admission methods for maximum throughput in DS-CDMA with multi-media traffic.

Nguyen et al. (US patent # 6,594,279 B1) discloses a method and its corresponding apparatus for transporting IP datagrams over synchronous optical networks at guarantied quality of service.

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Contact Information

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010. The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Vanderpuye Kenneth N. can be reached on (571) 272-3078. The fax phone numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

December 06, 2005

KENNETH VANDERPUTE SUPERVISORY PATENT EXAMINER